

In re Patent Application of:

WU

Serial No. 10/597,118

Filed: 17/12/2006

IN THE CLAIMS

1. (currently amended) A toothbrush ~~comprises~~ comprising:
a toothbrush head [[1]],
a toothbrush bar [[2]], and
a toothpaste container [[3]] which is connected with the
toothbrush bar [[2]],
wherein the toothbrush bar [[2]] has a pipe channel [[21]],
and the toothbrush container [[3]] is communicated with the
toothbrush head [[1]] through the pipe channel [[21]] via a first
valve, and
wherein the toothbrush bar [[2]] is hinged with the
toothbrush container [[3]] by a spherical hinged joint [[4]]
formed by the end of the toothbrush bar [[2]], and the spherical
hinged joint [[4]] controls the opening or closing of the first
valve.
2. (currently amended) A toothbrush according to claim 1,
~~wherein inside said toothbrush head 1 is further comprising~~
~~provided with~~ a vane valve [[11]] inside said toothbrush head for
controlling the opening or closing of the pipe channel [[21]].
3. (currently amended) A toothbrush according to claim 1,
wherein said toothbrush container [[3]] is a pressurized
container.
4. (currently amended) A toothbrush according to claim 1,
wherein said toothbrush container [[3]] is a gas-filled container
with a gas nipple [[33]] at the bottom of the container, and
wherein a toothpaste bag [[32]], which is a compressible soft
bag, is located inside the container.

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5. (currently amended) A toothbrush according to claim 1, wherein said spherical hinged joint [[4]] has at least a protruding lip [[41]] located at its rear end, and the protruding lip [[41]] controls the opening or closing of the first valve when the toothbrush bar [[2]] is rotated with respect to the toothbrush container [[3]].

6. (currently amended) A toothbrush according to claim 5, wherein said first valve is a ball valve [[31]] in which the ball [[311]] is disposed at the exit of the toothbrush container [[3]], and the protruding lip [[41]] drives the ball [[311]] to move when the toothbrush bar [[2]] is rotated.

7. (currently amended) A toothbrush according to claim 1, wherein said spherical hinged joint [[4]] ~~is equipped~~ includes ~~with~~ a leakproof ring [[42]].

8. (currently amended) A toothbrush according to claim 1, further comprising ~~wherein~~ a positioning spring [[43]] ~~is provided~~ to enable a reset of the toothbrush bar by a relative rotation between the toothbrush bar [[2]] and the toothbrush container [[3]].

9. (currently amended) A toothbrush according to claim 1, further comprising ~~wherein~~ an adjusting button [[44]] ~~is provided~~ for adjusting the relative slanting angle between the toothbrush bar [[2]] and the toothbrush container [[3]].

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10. (currently amended) A toothbrush according to claim 2, wherein said toothbrush container [[3]] is a pressurized container.

11. (currently amended) A toothbrush according to claim 2, wherein said toothbrush container [[3]] is a gas-filled container with a gas nipple [[33]] at the bottom of the container, and wherein a toothpaste bag [[32]], which is a compressible soft bag, is located inside the container.

12. (currently amended) A toothbrush according to claim 2, wherein said spherical hinged joint [[4]] has at least a protruding lip [[41]] located at its rear end, and the protruding lip [[41]] controls the opening or closing of the first valve when the toothbrush bar [[2]] is rotated with respect to the toothbrush container [[3]].

13. (currently amended) A toothbrush according to claim [[2]] 12, wherein said first valve is a ball valve (31) in which the ball (311) is disposed at the exit of the toothbrush container (3), and the protruding lip (41) drives the ball (311) to move when the toothbrush bar (2) is rotated.

14. (currently amended) A toothbrush according to claim 2, wherein said spherical hinged joint [[4]] includes ~~is equipped~~ ~~with~~ a leakproof ring [[42]].

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15. (currently amended) A toothbrush according to claim 2, further comprising ~~wherein~~ a positioning spring ~~[[43]] is~~ ~~provided~~ to enable a reset of the toothbrush bar by a relative rotation between the toothbrush bar ~~[[2]]~~ and the toothbrush container ~~[[3]]~~.

16. (currently amended) A toothbrush according to claim 2, further comprising ~~wherein~~ an adjusting button ~~[[44]] is provided~~ for adjusting the relative slanting angle between the toothbrush bar ~~[[2]]~~ and the toothbrush container ~~[[3]]~~.